

November 19, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

PLU 20 DTD 222H – 223H Well API 30-015-54910

Incident Number nAPP2415057335

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the PLU 20 DTD 222H – 223H (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (RWP)*, was to address waste-containing soil resulting from the release of produced water at the Site. XTO is submitting this *Closure Request*, describing additional excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2415057335.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 16, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.2109425°, -103.8891928°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (SLO) on Lease ID E055580005.

On May 20, 2024, damage to a flowline resulted in the release of 34 barrels (bbls) of produced water to the surrounding right-of-way (ROW) and pasture area. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 10 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and subsequently submitted an Initial C-141 Application (C-141) on May 29, 2024. The release was assigned Incident Number nAPP2415057335.

Ensolum conducted Site assessment, delineation, excavation, and confirmation soil sampling activities and presented the results in an *RWP*. The *RWP* was submitted on August 19, 2024, and approved by the NMOCD on August 21, 2024. The *RWP* proposed additional excavation of waste-containing soil identified during confirmation soil sampling activities. Delineation, excavation and confirmation soil sample locations are shown on Figure 2 and laboratory analytical results are summarized on Table 1. The approved *RWP* is attached in Appendix D.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc PLU 20 DTD 222H – 223H Closure Request

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *RWP*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. A map of the Site location and potential Site receptors is included in Figure 1.

CULTURAL PROPERTIES PROTECTION RULE

A portion of the release was identified in the pasture and as a result, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. An Archaeological Records Management System (ARMS) review was performed for the right-of-way and pasture area prior to excavation. No cultural resources were identified within and/or around the release extent requiring remediation efforts. An approved CPP Rule cover sheet showing the area was previously surveyed is attached in Appendix A.

BIOLOGICAL COMPLIANCE AND REPORTING

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- The Site is not located within an area of possible threatened, endangered, and sensitive wildlife and plant species.
- No environmentally sensitive receptors were located near the Site as mentioned in the approved Site Characterization.
- The soil type is classified as Kermit-Berino fine sands according to the Web Soil Survey. Kermit-Berino fine sands is not considered a sensitive soil by the SLO definition.

EXCAVATION SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite between November 1 and November 6, 2024, to excavate waste-containing soil according to the approved *RWP*. Additional excavation activities were performed by use of heavy equipment in two areas. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated waste-containing soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extents. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by



XTO Energy, Inc PLU 20 DTD 222H – 223H Closure Request

thoroughly mixing. Confirmation soil samples FS06 through FS14 were collected from the floor of the excavation at depths ranging from 0.5 feet to 1-foot bgs. Confirmation soil samples SW04 and SW05 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 1-foot bgs. The confirmation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photographic documentation of the excavation activities is provided in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

The additional excavation extent measured approximately 1,616 square feet. Approximately 55 cubic yards of waste-containing soil was removed during the additional excavation activities. The total excavation extents, including the excavation activities from the *RWP* measure approximately 2,586 square feet. A total of approximately 95 cubic yards of waste-containing soil was removed. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final additional excavation floor and sidewall samples indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Additional excavation activities were conducted at the Site in accordance with the *RWP* to address the May 2024 release of produced water. Laboratory analytical results for all excavation soil samples collected indicate COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing Site conditions. The disturbed areas will be reclaimed according to the *RWP* approved reclamation plan in the next SLO favorable seeding season.

Excavation of soil has mitigated impacts exceeding the Closure Criteria and reclamation requirement at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2415057335.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

XTO Energy, Inc PLU 20 DTD 222H – 223H Closure Request

Sincerely, **Ensolum**, **LLC**

Tracy Hillard Project Engineer Tacoma Morrissey Associate Principal

Mouissey

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

SLO

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Confirmation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A NMSLO Cultural Resources Cover Sheet

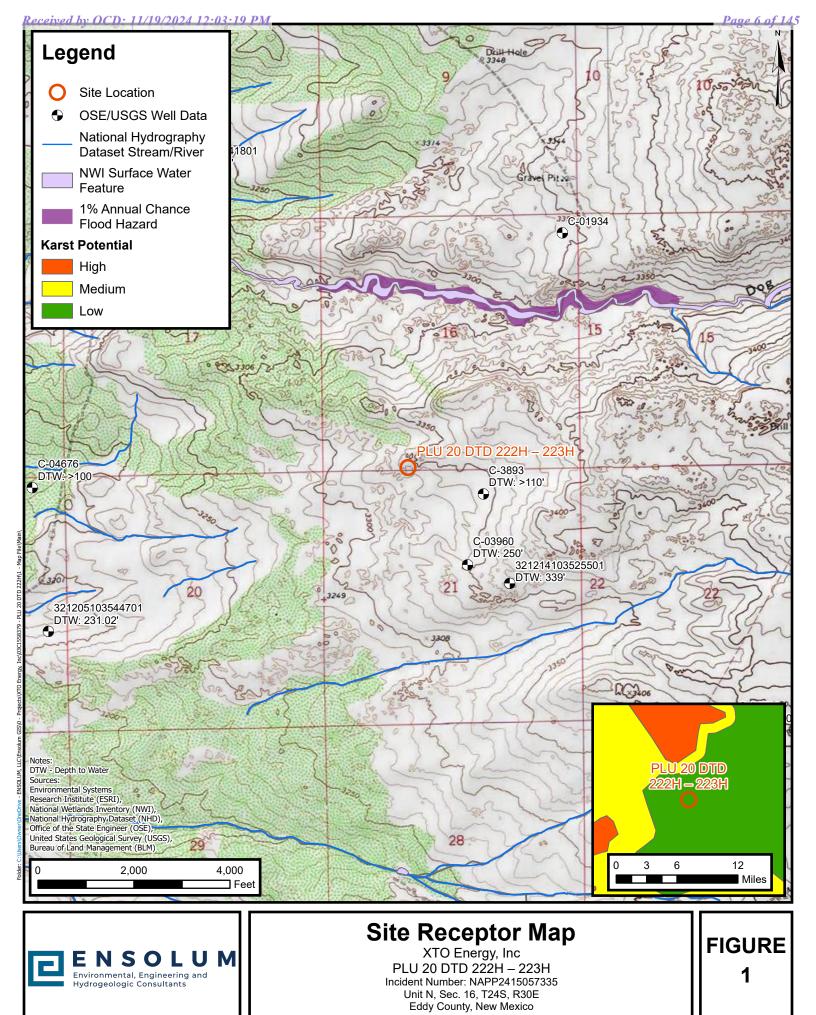
Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

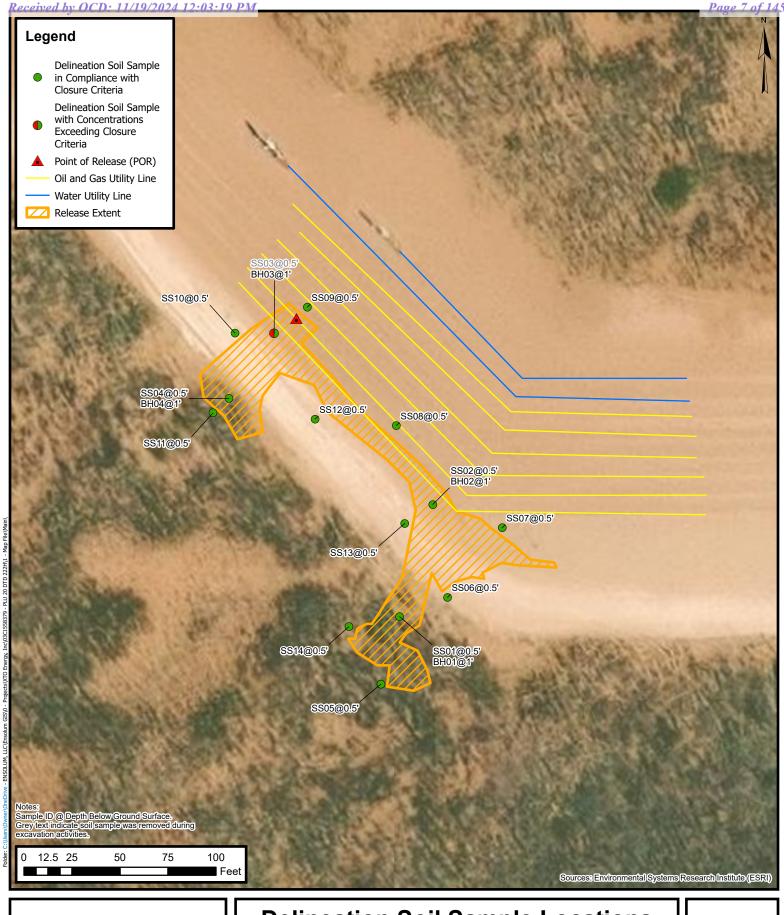
Appendix D August 2024, Remediation Work Plan



FIGURES



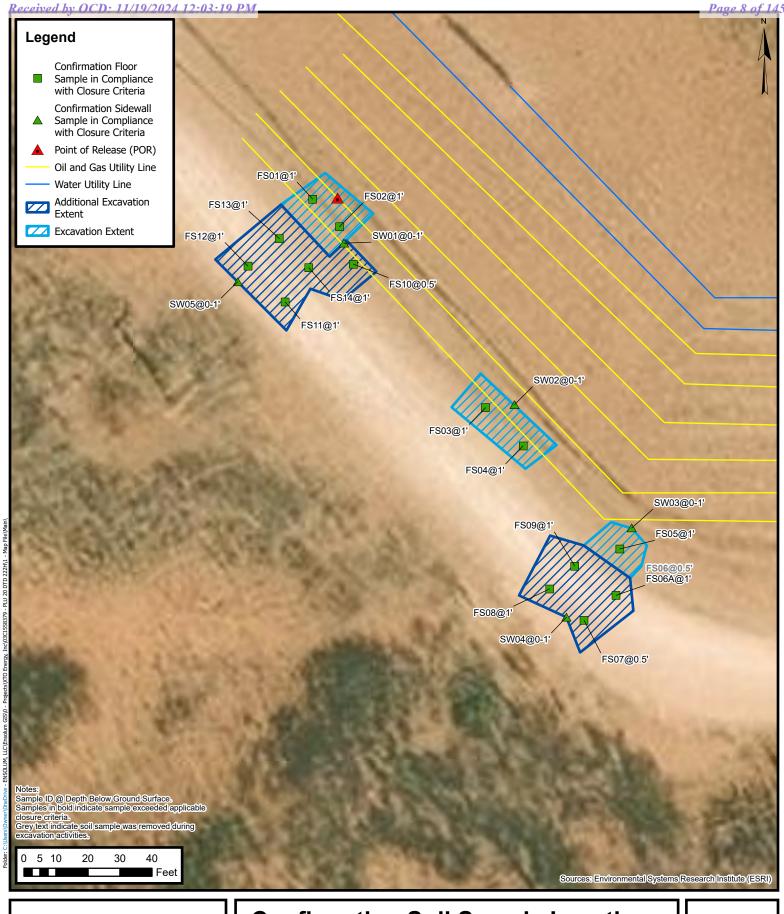
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Delineation Soil Sample Locations

XTO Energy, Inc PLU 20 DTD 222H – 223H Incident Number: NAPP2415057335 Unit N, Sec. 16, T24S, R30E Eddy County, New Mexico FIGURE 2





Confirmation Soil Sample Locations

XTO Energy, Inc
PLU 20 DTD 222H – 223H
Incident Number: NAPP2415057335
Unit N, Sec. 16, T24S, R30E
Eddy County, New Mexico

FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 20 DTD 222H - 223H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	ssment Soil Sa	mples				
SS01	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH01	06/05/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS02	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
BH02	06/05/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS03	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
BH03	06/05/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SS04	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
BH04	06/05/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS05	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS09	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS11	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS12	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS13	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
				Con	firmation Soil Saı	nples				
CS01	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS02	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
CS03	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS04	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS05	07/02/2024	0.3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS06	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
CS07	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,120
CS08	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS09	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS10	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,550
CS11	07/02/2024	0.3	<0.050	<0.300	<10.0	45.9	44.6	<10.0	90.5	4,480
CS12	07/02/2024	0.3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 20 DTD 222H - 223H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
CS13	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
CS14	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
CS15	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
CS16	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS17	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS18	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS19	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS20	07/02/2024	0.3	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
CS21	07/02/2024	0.3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020
CS22	07/02/2024	0.3	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
CS23	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS24	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS25	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS26	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS27	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS28	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CS29	07/02/2024	0.3	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
CS30	07/02/2024	0.3	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
				Exc	cavation Soil Sam	ples				
FS01	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS02	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS03	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS04	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS05	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS06	11/01/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	704
FS06A	11/06/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS07	11/01/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS08	11/01/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS09	11/01/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS10	11/01/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS11	11/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS12	11/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 20 DTD 222H - 223H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS13	11/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS14	11/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW01	07/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW02	07/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW03	07/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW04	11/01/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW05	11/05/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	205

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

(if applicable)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

	ect		

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc PLU 20 DTD 222H-223H Incident Number nAPP2415057335





Photograph: 1 Date: 11/1/2024

Description: Excavation activities

View: Northeast

Photograph: 2 Date: 11/1/2024

Description: Excavation activities

View: Northeast





Photograph: 3 Date: 11/5/2024

Description: Final excavation extent

View: West

Photograph: 4 Date: 11/6/2024

Description: Final excavation extent

View: East



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



November 05, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H-223H

Enclosed are the results of analyses for samples received by the laboratory on 11/04/24 11:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 11/04/2024
 Sampling Date:
 11/01/2024

 Reported:
 11/05/2024
 Sampling Type:
 Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: SW 04 0-1' (H246697-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.17	108	2.00	2.90	
Toluene*	<0.050	0.050	11/05/2024	ND	2.23	111	2.00	2.91	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.22	111	2.00	2.43	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.61	110	6.00	2.42	
Total BTEX	<0.300	0.300	11/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/05/2024	ND	464	116	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	223	111	200	2.78	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	214	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(5/5) 393-2326	CAN (010) 333-2410		
Company Name: Ensolum, LLC		BILL TO	ANALTOIS REGUES!
roject Manager: Cau	bacllo	P.O. #:	
Address: 3122 National Parks Hwy	y	Company: (10 + New	
City: Carlsbad	State: NM Zip: 88220	Attn: (Dita) 120	
5-437-3	906 Fax #:	Address: Slove & Go	Diego ot.
03015583	Poject Owner:	city: Carls bad	
Project Name: PU 20	DID 222H-223H	State W Zip: 8822	
Project Location:		Phone #:	
Sampler Name: Swente	Brooks	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	re
Lab I.D. Sample I.D.	Depth AB OR (C)OMP. NTAINERS UNDWATER TEWATER	ER: //BASE: COOL ER:	DENZEI STEX PH Julos
TOWNET	# C GR WA SO OIL	OT AC ICE OT DATE	TIME
SWOY	0 - (C) X	X 111112412	\(\frac{\partial}{\partial}\)
PLEASE NOTE: Liability and Damages. Cardinal's liabil	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	act or tort, shall be limited to the amount paid by the	e client for the
analyses. All claims including those for negligence and a service. In no event shall Cardinal be liable for incidental	analyses. All claims including those for negligence and any other cause whatsoever small be deemed waved unless much many an analyses. All claims including those for negligence and any other cause whatsoever small be deemed waved unless many small claims, including the cause of case of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interest in loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interest in loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business including the consequents.	ns, loss of use, or loss of profits incurred by client, if	
affiliates or successors arising out of or related to the per Relipquished By:	ors arising out of or related to the performance of services inercuriour of cardinal regardness of minutes and cumin a second services and a By: Batte:	Ve	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Know bern	86001	agnul 8	
Relinquished By:	Date: Received By:		KEWAKTO:
		CHECKED BY.	Standard Bacteria (only) S
Delivered By: (Circle One)	~ s	(Initials)	Rush
Sampler - UPS - Bus - Other:	Corrected Temp. CO 2/ Tres Lives		_



November 05, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H-223H

Enclosed are the results of analyses for samples received by the laboratory on 11/04/24 11:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 11/04/2024
 Sampling Date:
 11/01/2024

 Reported:
 11/05/2024
 Sampling Type:
 Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

A I J D. ... 711

Project Location: XTO 32.210943-103.889193

Sample ID: FS 06 0.5' (H246698-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.17	108	2.00	2.90	
Toluene*	<0.050	0.050	11/05/2024	ND	2.23	111	2.00	2.91	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.22	111	2.00	2.43	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.61	110	6.00	2.42	
Total BTEX	<0.300	0.300	11/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/05/2024	ND	464	116	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	219	110	200	4.86	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	216	108	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/04/2024 Sampling Date: 11/01/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.210943-103.889193

mg/kg

Sample ID: FS 07 0.5' (H246698-02)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.17	108	2.00	2.90	
Toluene*	<0.050	0.050	11/05/2024	ND	2.23	111	2.00	2.91	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.22	111	2.00	2.43	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.61	110	6.00	2.42	
Total BTEX	<0.300	0.300	11/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/05/2024	ND	464	116	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	219	110	200	4.86	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	216	108	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/04/2024 Sampling Date: 11/01/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.210943-103.889193

ma/ka

Sample ID: FS 08 1' (H246698-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.17	108	2.00	2.90	
Toluene*	<0.050	0.050	11/05/2024	ND	2.23	111	2.00	2.91	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.22	111	2.00	2.43	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.61	110	6.00	2.42	
Total BTEX	<0.300	0.300	11/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2024	ND	464	116	400	3.51	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	219	110	200	4.86	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	216	108	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/04/2024 Sampling Date: 11/01/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.210943-103.889193

ma/ka

Sample ID: FS 09 1' (H246698-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.17	108	2.00	2.90	
Toluene*	<0.050	0.050	11/05/2024	ND	2.23	111	2.00	2.91	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.22	111	2.00	2.43	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.61	110	6.00	2.42	
Total BTEX	<0.300	0.300	11/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/05/2024	ND	464	116	400	3.51	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	219	110	200	4.86	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	216	108	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/04/2024 Sampling Date: 11/01/2024

Reported: 11/05/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558379 Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: FS 10 0.5' (H246698-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2024	ND	2.17	108	2.00	2.90	
Toluene*	<0.050	0.050	11/05/2024	ND	2.23	111	2.00	2.91	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.22	111	2.00	2.43	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.61	110	6.00	2.42	
Total BTEX	<0.300	0.300	11/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/05/2024	ND	464	116	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2024	ND	219	110	200	4.86	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	216	108	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					
Surrogate: 1-Chlorooctane	85.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



East Marland, Hobbs, NM 88240 75) 393-2326 FAX (575) 393-2476

(5/5) 393-2326 F	FAX (5/5) 393-24/6		
Company Name: Ensolum, LLC	•	BILL TO	ANALYSIS REQUEST
Project Manager: Tracul hi	122	P.O. #:	
Address: 3122 National Parks Hwy		Company: XTD EMERTY	
City: Carlsbad	State: NM Zip: 88220	Attn: (oltan basis	
75-937-39	C Fax #:	Address: 3/04 E Grews	
0301558379	Project Owner:	city: Carlshad	
Project Name: PU 20 D	TD 2224-223H	State: N Mzip: 68770	
Project Location:	7	Phone #:	2
Sampler Name: Wherele K	Sypolos	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	nic
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	Bentoen BTEX TOH Clubs
- t 054	- 12 - X	- ×	- X - X - X
3 7508		41.51	
12007) -	3.5	
0	0		
PLEASE NOTE: Liability and Damages. Cardina's liability and canalyses. All daims including those for negligence and any office service. In no event shall Cardinal be liable for incidental or conservice.	PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	or tort, shall be limited to the amount paid by the client for the dreceived by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subsidiaries	e applicable
Relinquished By:	Date: Received By:		☐ Yes ☐ No Add'I Phone #: emailed. Please provide Email address:
Retinquished By:	Date: Received By:	REMARKS:	PARTICIONAL CROMONDA (LAD) TIMISTINGO
Delivered By: (Circle One)	CD.	CH	Standard Bacteria (only) S
her:	SC	s (Initials) Thermometer ID #/13	\$ 4 TO 1

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



November 08, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H-223H

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/08/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Tamara Oldaker

Project Location: XTO 32.2109425-103.8891928

Sample ID: FS 11 1' (H246793-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.14	107	2.00	3.17	
Toluene*	<0.050	0.050	11/08/2024	ND	2.06	103	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.05	103	2.00	3.53	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.07	101	6.00	3.80	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	207	103	200	4.00	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	99.9	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/08/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: XTO 32.2109425-103.8891928

ma/ka

Sample ID: FS 12 1' (H246793-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.14	107	2.00	3.17	
Toluene*	<0.050	0.050	11/08/2024	ND	2.06	103	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.05	103	2.00	3.53	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.07	101	6.00	3.80	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	207	103	200	4.00	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	99.9	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/08/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: XTO 32.2109425-103.8891928

ma/ka

Sample ID: FS 13 1' (H246793-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.14	107	2.00	3.17	
Toluene*	<0.050	0.050	11/08/2024	ND	2.06	103	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.05	103	2.00	3.53	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.07	101	6.00	3.80	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/08/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	207	103	200	4.00	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	99.9	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Kreine



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/08/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558379 Tamara Oldaker

Project Location: XTO 32.2109425-103.8891928

Sample ID: FS 14 1' (H246793-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.14	107	2.00	3.17	
Toluene*	<0.050	0.050	11/08/2024	ND	2.06	103	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.05	103	2.00	3.53	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.07	101	6.00	3.80	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	207	103	200	4.00	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	99.9	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/05/2024

Reported: 11/08/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558379

Project Location: XTO 32.2109425-103.8891928

Sample ID: SW 05 0-1' (H246793-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.14	107	2.00	3.17	
Toluene*	<0.050	0.050	11/08/2024	ND	2.06	103	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.05	103	2.00	3.53	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.07	101	6.00	3.80	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/08/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	207	103	200	4.00	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	200	99.9	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.2	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

† Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(;	(575) 393-2326 FAX (575) 393-2476	AX (575) 393-24	16															ı									١	1		1	1	
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Project Manager:	Trocy Hillord								7	P.O. #:	#																					
Address: 3122 National Parks Hwy	onal Parks Hwy							80.5	C	om	pan	y:	X	Company: XTO Energy Inc.	ic.																	
City: Carlsbad		State: NM	Zip: 88220	882	20			-	D	ttn	1	1	a a	Attn: Amy Ruth Colon Grown	NAMON																	
5	3062 126	Fax #:							D	ddr	ess	w	104	Address: 3104 E Green St	#																	
Project #: 0 301556	16379	Project Owner: XTO	XTC	0			100	-3	C	ity:	Ca	TS!	City: Carlsbad															(8)				
Project Name: PLU 20517 274H-223H	122 41502 D	1-2231							S	tate	State: NM	3	2	Zip:88220																		
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Lab I.D. 1	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:			OTHER:		TIME	Chlorides	TOH		BIEX													
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Relinquished By:	hed By:	Date: 7-24 Time: 4/0	Re	Received By:	ed			1	1	The same	(II)	113	M	in Milled the	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: \[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	are el	maile @ens	☐ Yes lailed. P ensolur	lease	□ No ase prov	☐ Yes ☐ No Add'I Phone #: pmailed. Please provide Email address: @ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com	mail sey@	one add	ress:	соп	, kth	ioma	son	@er	Isoli	m.	com
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Sampler - UPS - Bus - Other:		Corrected Temp. °C	1.9	0			Yes Yes	35	Yes		^	X	3		Thermometer ID	1	23	1	0	, .	1		N E	No No	No	Col	Corrected Temp. °C	ed T	emi	cô		



November 11, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H-223H

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 11/07/2024 Sampling Date: 11/06/2024

Reported: 11/11/2024 Sampling Type: Soil
Project Name: PLU 20 DTD 222H-223H Sampling Condition: Coo

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.2109425-103.8891928

Sample ID: FS 06A 1' (H246795-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	1.74	87.2	2.00	21.9	
Toluene*	<0.050	0.050	11/08/2024	ND	1.69	84.6	2.00	20.7	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	1.70	84.8	2.00	20.1	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	5.00	83.4	6.00	20.4	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/11/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	201	101	200	0.230	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	193	96.4	200	0.774	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	(5/5) 393-2326 FAX (5/5) 393-24/6	AX (5/5) 393-24/							
Company Name:	Ensolum, LLC			BILL TO		A	ANALYSIS REG	REQUEST	1
Project Manager: TracyHillard	TracyHillard			P.O. #:					
Address: 3122 N	Address: 3122 National Parks Hwy	У		company: XTO Energy Inc.	y Inc.		_	_	
city: Carlsbad	×	State:NM	Zip: 88220	Attn: Colton Brown					
e #:	575-937-3906			Address: 3104 E. Green	en St.				
	03C1558379	Project Owner:	er: XTO	city: Carlsbad					
Project Name:	PLU 20 DTD 222H-223H	2H-223H		State: NM Zip: 88220				_	
Project Location:	32.2109425, -103.8891928	.8891928		Phone #:					
Sampler Name: Jesse Dorman	sse Dorman			Fax #:					
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING	ING				
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH	CHLORIDE			
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PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Card	Damages. Cardinal's liability and cl those for negligence and any other inal be liable for incidental or cons	ient's exclusive remedy for any cause whatsoever shall be deveranted damages, including we accomplished to the control of the care of the	claim arising whether based in contra smed waived unless made in writing a ithout limitation, business interruptions	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal writin's 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without consequent intration, business interruptions, loss of use, or loss of profits incurred by business the state of the profits and the profits of the profit	by the client for the completion of the applicable ant, its subsidiaries, cons or otherwise.				
Relinquished By:	Ont of or the person of the person than the person of the	Date: 7-24	Received By:	inquished By: Date: Left 24 Received By: All Results	ult: are en	□Yes □No nailed. Please provic	Add'I Phone #: ide Email address:	Thillard@ensolum.com	om
and	9	100	Mount	all Matter	BBelilll@ensolum.com	m TMorrissey(100	kthomason@ensolum.com	.com
Relinquished By:		Date:	Received By:		REMARKS: Cost	Cost Center:2266531001	1 =	PP2415057335	
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition Cool intact Cool intact Yes	ON CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Bacteria (only Cool Intact Yes Yes	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C ş∐Yes∐	. °C
odilipiei - oro - pus - ouiei.		orrected temp.		40,	Carrection Factor 0.5°C	061101	No No	Corrected Temp. °C	, °C

FORM-006 R 3.2 10/07/21



APPENDIX D

August 2024, Remediation Work Plan



August 19, 2024

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe. New Mexico 87505

Re: Remediation Work Plan

PLU 20 DTD 222H-223H

Incident Number NAPP2415057335

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* to document assessment and remediation activities completed to date and propose remedial actions to address impacted soil identified at the PLU 20 DTD 222H-223H (Site). The purpose of the Site delineation and excavation activities was to remove waste-containing soil resulting from a release of produced water at the Site. The following Work Plan proposes to excavate additional waste-containing soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 16, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.2109425°, -103.8891928°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO).

On May 20, 2024, damage to a flowline resulted in the release of 34 barrels (bbls) of produced water to the surrounding right-of-way (ROW) and pasture area. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 10 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and subsequently submitted an Initial C-141 Application (C-141) on May 29, 2024. The release was assigned Incident Number NAPP2415057335.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest groundwater well with depth to groundwater data is a New Mexico Office of the State Engineer (NMOSE) well, permitted as C-3893, located approximately 0.33 miles southeast of the Site. In August 2015, C-3893 was drilled to a total depth of 600 feet bgs. No groundwater was observed during drilling activities. The Well Record and Log is included in Appendix A and all wells used for depth to water determination are depicted on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 3,510 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On May 20, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Fourteen delineation soil samples (SS01 through SS14) were collected at a depth 0.5 feet bgs. Delineation soil samples SS01 through SS04 were collected within the release extent and SS05 through SS14 were collected outside of the release extent. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed and a photographic log is included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

On June 5, 2024, four boreholes (BH01 through BH04) were advanced via hand auger within the release extent at the approximate locations of SS01 through SS04, respectively. The boreholes were advanced to terminal depths ranging from 1 foot to 2 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 1 foot bgs to 2 feet bgs. Soil from the borehole was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the delineation activities and a photographic log is included in Appendix B. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above.



Laboratory analytical results for soil sample SS03 indicated chloride concentrations exceeded the reclamation requirement. Laboratory analytical results for all delineation soil samples collected at 0.5 feet bgs were in compliance with the Closure Criteria and reclamation requirement, successfully defining the lateral extent of the release. Laboratory analytical results for all delineation soil samples collected at depths ranging from 1 foot to 2 feet bgs were compliant with the Closure Criteria and reclamation requirement, successfully defining the vertical extent of the release. Based the laboratory analytical results, additional confirmation soil sampling and excavation of the area near SS03 was warranted.

CONFIRMATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

On July 2, 2024, Ensolum personnel visited the Site to complete confirmation soil sampling of the release extent. Thirty 5-point composite confirmation soil samples were collected in areas that represented no more than 200 square feet of the release extent. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples CS01 through CS30 were collected at a depth of approximately 0.3 feet bgs within the release extent. The confirmation soil samples were field screened for VOCs and chloride and mapped utilizing a handheld GPS system. The confirmation soil sample locations are depicted on Figure 3. The soil samples were handled following the same procedure as described above and submitted to Cardinal in Hobbs, New Mexico.

Following a review of the laboratory analytical results for confirmation soil samples CS01 through CS30, Ensolum personnel returned to the Site to oversee excavation of waste-containing soil identified in the area of assessment soil sample SS03 as well as confirmation soil samples CS06, CS07, CS10, CS11, CS14, CS15, CS20 through CS22, CS29, and CS30.

Between July 18 and July 19, 2024, soil was excavated to the maximum extent possible (MEP) with hand shovels in the areas represented by delineation soil sample SS03 and confirmation soil samples CS10, CS14, and CS15, which contained chloride concentrations exceeding the reclamation requirement. The excavation occurred in an active pipeline ROW. Additional excavation via hand shovel was limited by refusal due to shallow competent caliche. To direct excavation activities, Ensolum personnel screened soil for VOCs and chlorides. Following the removal of impacted soil, 5-point composite excavation soil samples were collected as described above. Excavation soil samples FS01 through FS05 were collected from the floor of the excavation at a depth of 1 foot bgs. Excavation soil samples SW01 through SW03 were collected on the sidewall of the excavations at depths ranging from ground surface to 1 foot bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extents and confirmation soil sample locations are presented on Figure 3.

The total excavation areas measured approximately 970 square feet. A total of approximately 40 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Disposal Facility located in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation soil samples CS06, CS07, CS10, CS11, CS14, CS15, CS20 through CS22, CS29, and CS30 indicated chloride concentrations exceeded the reclamation requirement. Laboratory analytical results for all other confirmation soil samples indicated all COCs were compliant with the Closure Criteria and reclamation requirement.

Following the removal of waste containing soil in the areas of delination soil sample SS03 and confirmation soil samples CS10, CS14 and CS15, laboratory analytical results for excavation soil



samples FS01 through FS05, and SW01 through SW02 indicated all COC concentrations were in compliance with the Closure Criteria and reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

While approximately 40 cubic yards of waste-containing soil were removed with hand shovels, laboratory analytical results for confirmation soil samples indicate soil containing elevated chloride concentrations still exists across a total of 1,500 square feet and extends to a maximum depth of 1-foot bgs. Removal of this waste-containing soil will require mechanical excavation. As such, XTO proposes to complete the following remediation activities:

- Excavation of waste containing soil to a depth of 1-foot bgs in the areas of confirmation soil samples CS06, CS07, CS11, CS20 through CS22, CS29, and CS30. Excavation will proceed laterally until sidewall soil samples confirm chloride concentrations are compliant with the reclamation requirement in the top four feet.
- The soil samples will be handled as described above and analyzed for all COCs.
- An estimated 55 cubic yards of waste-containing soil will be excavated. The excavated soil will be transferred to an approved landfill facility for disposal.
- XTO will submit a Closure Request detailing additional remediation activities completed.

PROPOSED RECLAMATION PLAN

- The excavation will be backfilled with locally sourced topsoil to match surrounding grade;
- One representative 5-point composite soil sample will be collected from the backfill material to confirm compliance with the NMOCD requirement for reclaimed areas to be non-waste containing. The representative backfill soil sample will be handled and analyzed following the same procedures as described above
- Following backfill activities the disturbed area will be contoured to match the surrounding topography and the surface will be prepared for seeding. XTO proposes to seed the area with a certified weed-free seed mix of the NMSLO Sandy Site Seed Mixture, below, at the rate specified in pounds of pure live seed (PLS) per acre;

Grasses	PLS/Acre
Sand bluestem	2.0
Little bluestem	3.0
Black grama	1.0
Sand dropseed	4.0
Plains bristlegrass	2.0
Forbs	PLS/Acre
Firewheel (Gaillardia)	1.0
Annual Sunflower	1.0
Shrubs	PLS/Acre
Fourwing Saltbrush	1.0

• The seed mix will be applied via drill seeding. Reclamation activities will be documented with photographs and will be timestamped with GPS data;



> The Site will be monitored for vegetation growth and to ensure that reclamation activities are successful.

XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Mariaha O'Dell

Mariaha O'Dell Staff Geologist

cc: Amy Ruth, XTO Amanda Garcia, XTO

BLM

Ashley L. Azer

Ashley Ager, MS, PG Principal, Geologist

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Confirmation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

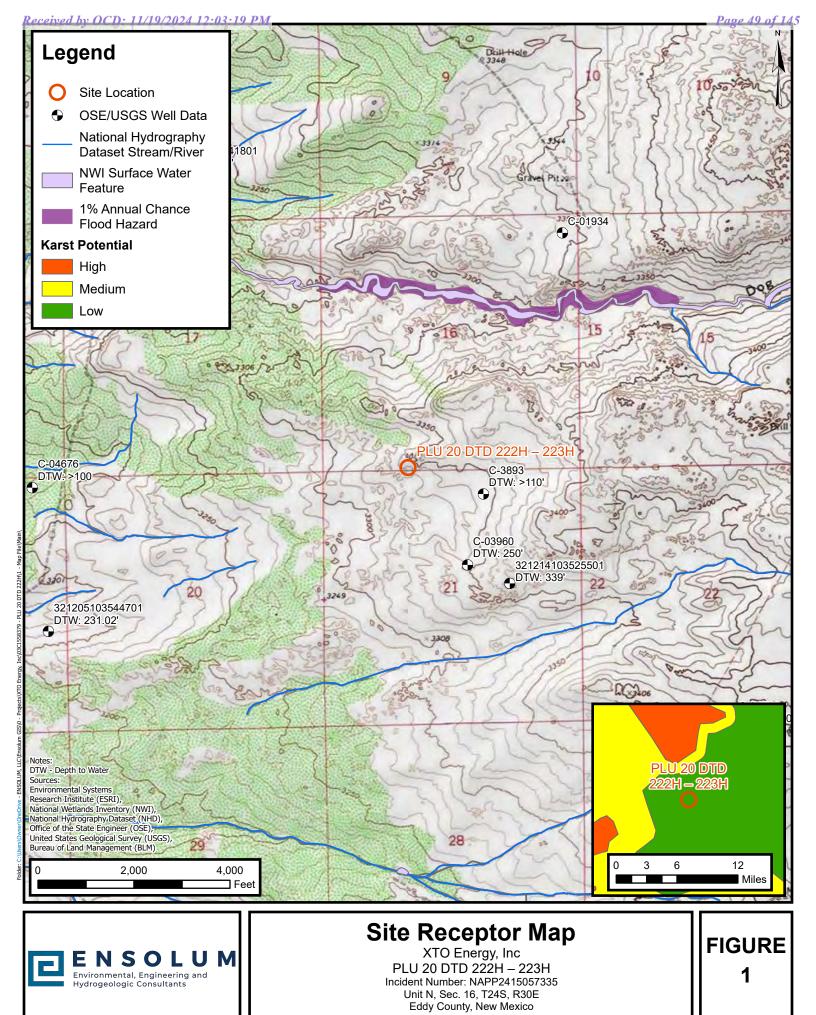
Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

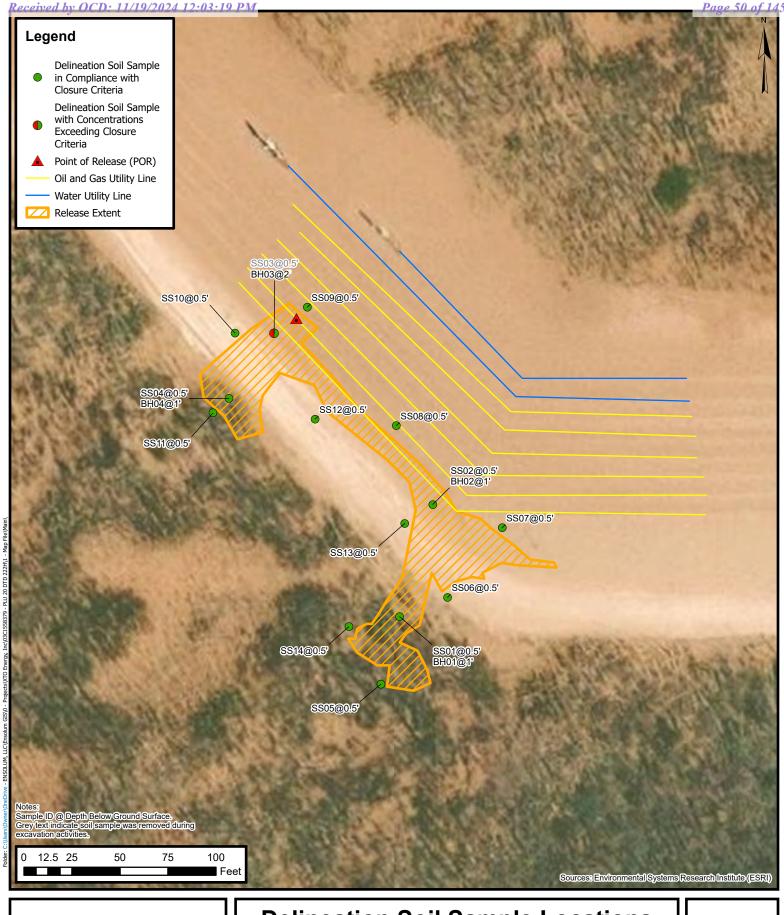




FIGURES



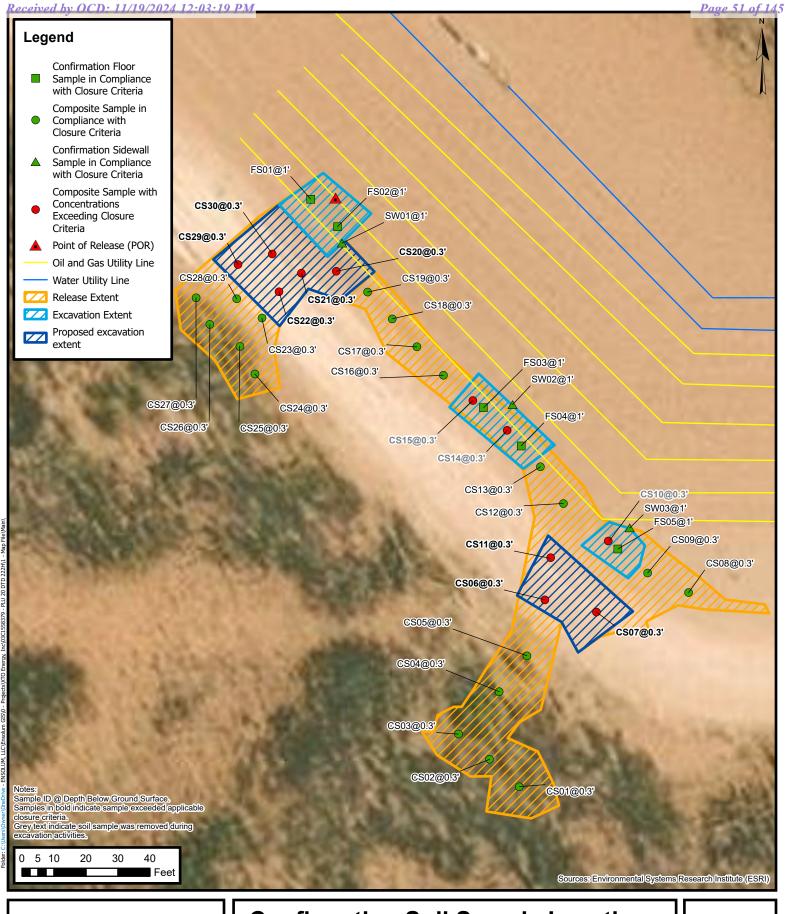
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Delineation Soil Sample Locations

XTO Energy, Inc PLU 20 DTD 222H – 223H Incident Number: NAPP2415057335 Unit N, Sec. 16, T24S, R30E Eddy County, New Mexico FIGURE 2





Confirmation Soil Sample Locations

XTO Energy, Inc PLU 20 DTD 222H – 223H Incident Number: NAPP2415057335 Unit N, Sec. 16, T24S, R30E Eddy County, New Mexico FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 20 DTD 222H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	ssment Soil Sa	mples				
SS01	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH01	06/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS02	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
BH02	06/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS03	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
BH03	06/05/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SS 04	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
BH04	06/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS05	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS09	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS11	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS12	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS13	05/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS14	05/20/2024	0.5	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
				Con	firmation Soil Sa	mples				
CS01	07/02/2024	0.3	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS02	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
CS03	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS04	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS05	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS06	07/02/2024	0.3	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
CS07	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,120
CS08	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS09	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS10	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,550
CS11	07/02/2024	0.3	<0.050	<0.300	<10.0	45.9	44.6	<10.0	90.5	4,480
CS12	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
CS13	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
CS14	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 20 DTD 222H XTO Energy, Inc **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
CS15	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8 32
CS16	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS17	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS18	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS19	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS20	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
CS21	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020
CS22	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
CS23	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS24	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS25	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS26	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS27	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
CS28	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CS29	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
CS30	07/02/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
				Exc	cavation Soil Sam	ples				
FS01	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS02	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS03	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS04	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS05	07/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW01	07/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW02	07/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW03	07/19/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 2 of 2



APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	1912	-			· .				
	OSE POD N	UMBER (WELI	L NUMBER)			OSE FILE NU	MBER(S)		
NO.	i	se CP Bed				C-3893			
ATA:	1	ER NAME(S)				PHONE (OPTI	ONAL)		
Š	ворсо,								(61)
GENERAL AND WELL LOCATION		ER MAILING N STREET	ADDRESS			FORT WO	RTH	TX 7610	ZIP 2
ON.	WELL		DEGREE		os				
AL A	LOCATIO		TUDE 32	12 32.88	N	!	' REQUIRED: ONE TEN' QUIRED: WGS 84	TH OF A SECOND	
NER	(FROM G	LON	GITUDE 103	53 2.88	W				
3	DESCRIPTIO	N RELATING W	ELL LOCATION TO STREE	T ADDRESS AND COMMON LANDMARKS - PL	SS (SECTION, TO	OWNSHJIP, RANG	E) WHERE AVAILABLE		
Ξ.	SE 1/4 O	F NW 1/4	OF NW 1/4 OF N	E 1/4 OF SECTION 21, TOWNSH	IIP 24S, RA	NGE 30E			
	LICENSE N	JMBER	NAME OF LICENSED	DRILLER			NAME OF WELL DRI	ILLING COMPANY	
	WD-126	1	R. DARRELL CR	ASS			DARRELL CRAS	S DRILLING COMI	PANY
-	DRILLING S	I	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)		E DEPTH (FT)		ST ENCOUNTERED (FT)	
	8/19/15	8	/26/15	600	600		N/A		
	COMPLETE	D DIELL ID	C ARTESIAN	© DRY HOLE C SHALLOW (UNC	OMERNED)		i	EL IN COMPLETED WE	LL (FT)
NO	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE \ SHALLOW (UNC	ONFINED)		N/A		
& CASING INFORMATION	DRILLING F	LUID:	C AIR	MUD ADDITIVES – SP.	ECIFY: SUI	PER GEL X		·"	
RM	DRILLING N	METHOD:	ROTARY	C HAMMER C CABLE TOOL	Отне	R - SPECIFY:			
NFO	DEPTH	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR	CA	SING	CASING	CASING WALL	SLOT
\G!	FROM	ТО	DIAM	GRADE (include each casing string, and	CONN	ECTION	INSIDE DIAM.	THICKNESS	SIZE
ASE			(inches)	note sections of screen)	1	YPE	(inches)	(inches)	(inches)
& C	0	40	8"	SCH 40 PVC BLANK	GLUE, S	CREWS	8"		
Š		Ì			İ			1	
ILLE								4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DRILLI								(***)	
2. DRILLING								577 	
2. DRILLI									
2. DRILLI								577 	
2. DRILLI								7 57 50 57 12 57 4 57	
2. DRILLI								7 57 50 57 12 57 4 57	
2. DRILLI	DEDTH	(fact hall)		TICT ADDITI AD CEAL M	ATERIALA	ND	AMOUNT		
		(feet bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL M. GRAVEL PACK SIZE-RANG			AMOUNT (cubic feet)	7 57 50 57 12 57 4 57	OOF
	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANG			(cubic feet)	METHOI PLACEM	OOF
	FROM 10	TO 425	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG			(cubic feet) 145 CUBIC FEET	METHOI PLACEM POUR	OOF
	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANG			(cubic feet)	METHOI PLACEM	OOF
	FROM 10	TO 425	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG		RVAL	(cubic feet) 145 CUBIC FEET	METHOI PLACEM POUR	OOF
	FROM 10	TO 425	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG		RVAL	(cubic feet) 145 CUBIC FEET	METHOI PLACEM POUR	OOF
ANNULAR MATERIAL	FROM 10	TO 425	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG		RVAL	(cubic feet) 145 CUBIC FEET	METHOI PLACEM POUR	OOF
	FROM 10	TO 425	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG		RVAL	(cubic feet)	METHOI PLACEM POUR	OOF
3. ANNULAR MATERIAL	FROM 10 0	TO 425 10	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG		RVAL	(cubic feet) 145 CUBIC FEET 7 CUBIC FEET	METHOI PLACEM POUR POUR	OFENT
3. ANNULAR MATERIAL	FROM 10	TO 425 10	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG	E BY INTE	RVAL WR-20	(cubic feet) 145 CUBIC FEET 7 CUBIC FEET	METHOI PLACEM POUR	OFENT
3. ANNULAR MATERIAL	FROM 10 0 OSE INTER	TO 425 10	DIAM. (inches)	GRAVEL PACK SIZE-RANG BENTONITE HOLE PLUG PORTLAND CEMENT	E BY INTE	RVAL WR-20	(cubic feet) 145 CUBIC FEET 7 CUBIC FEET	METHOI PLACEM POUR POUR	O OF ENT

	DEPTH ((feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	XXI A THE TO	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	S WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	5	5	TOPSOIL	CYEN	
	5	75	70	SAND	C Y © N	
	75	90	15	CLAY	CYGN	
	90	100	10	SANDSTONE	C Y 6 N	
	100	180	80	SANDY CLAY	CYEN	
ایرا	180	240	60	SAND	$C_A \otimes N$	
VEL	240	280	40	SAND & GRAVEL	CY 6 N	
OF.	280	400	120	SANDY CLAY	CY 6 N	
90	400	520	120	SAND	$C^{Y} \in \mathbb{N}$	
ICI	520	600	80	SANDY CLAY	CY 6 N	
4. HYDROGEOLOGIC LOG OF WELL					C Y C N	
OH:					$C^{Y}C^{N}$	
ROG					$C^{Y}C^{N}$	
Q.					$C^{Y}C^{N}$	
4.					$O^{Y} O^{N}$	
					$C_A C_N$	
				Ú	C.Y. C.N	<u></u>
		1			$C^{Y}C^{N}$	
					$C^{Y}C^{N}$	The District
					C^{Y}	5
					$C^{Y}C^{N}$	
	METHOD I	JSED TO E	STIMATE YIELD	OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED	Committee of the Commit
	C AIR LIE	т С	BAILER C	OTHER - SPECIFY:	WELL YIELD (gpm):	IVA
NC	WELL TES	ST TEST	RESULTS - ATT RT TIME, END TI	TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING DISCHARGE N ER THE TESTING PERIC	METHOD, TO DD.
5. TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	FORMATION:			
ER	THIS IS T	HE WELL	LOG FOR A CA	THODIC PROTECTION GROUNDBED		
SUI						
RIG						
ST;	DRINT NA	ME(S) OF E	RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL COM	ISTRUCTION OTHER TE	IAN LICENSEE:
5. TI	·	WE(B) OF E	ARLE MG DOI E			
	THE UNDI	ERSIGNED	HEREBY CERTI	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL	IEF, THE FOREGOING IS	A TRUE AND
6. SIGNATURE	AND THE	RECORD (PERMIT HO	OF THE ABOVE I OLDER WITHIN :	DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL F 20 DAYS AFTER COMPLETION OF WELL DRILLING:	RECORD WITH THE STA	TE ENGINEER
(AT)					÷	
SIG	1.6	Ocal	ll Cax	1.4	8.27.15	
9	- production			ER / PRINT SIGNEE NAME	DATE	*****
				VID AA TIT	EL DECODE 4 1 OC CI	min 06/09/2012)
	R OSE INTEI E NUMBER		893		ELL RECORD & LOG (Ve BER 571438	151011 00/06/2012)

Released to Imaging: 11/20/2024 3:58:11 PM

LOCATION

PAGE 2 OF 2



APPENDIX B

Photographic Log

E E N S O L U M

Photographic Log

XTO Energy, Inc PLU 20 DTD 222H-223H Incident Number nAPP2415057335



Photograph: 1 Date: 5/20/2024

Description: Soil staining in release footprint

View: Southwest



Photograph: 2 Date: 5/20/2024 Description: Soil staining in release footprint

View: Southeast



Photograph: 3 Date: 6/05/2024

Description: Delineation activities BH01

View: Southeast



Photograph: 4 Date: 6/05/2024

Description: Delineation activities BH03

View: Northwest



Photographic Log

XTO Energy, Inc PLU 20 DTD 222H-223H Incident Number nAPP2415057335





Photograph: 5 Date: 7/2/2024

Description: Confirmation surface sampling

View: Southwest

Photograph: 6 Date: 7/19/2024

Description: Excavation activities

View: East





Photograph: 7 Date: 7/19/2024

Description: Excavation activities

View: Southeast

Photograph: 8 Date: 7/19/2024

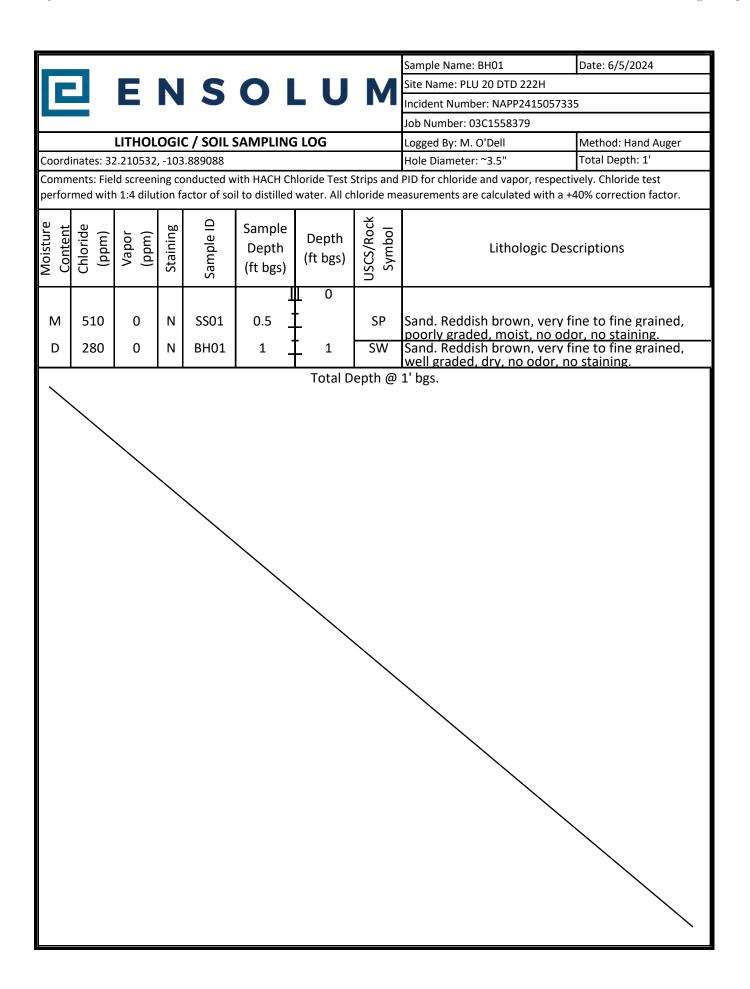
Description: Excavation activities

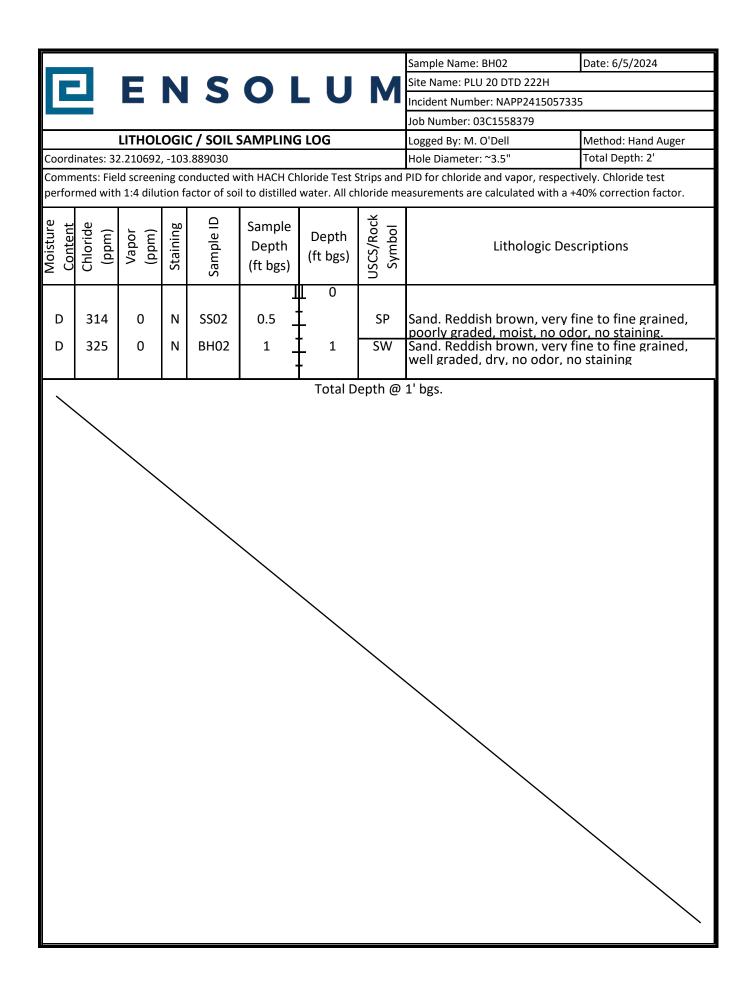
View: East

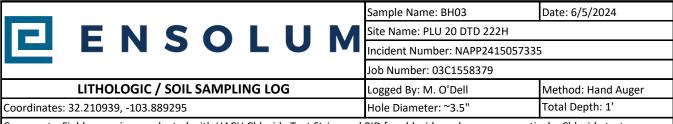


APPENDIX C

Lithologic Soil Sampling Logs

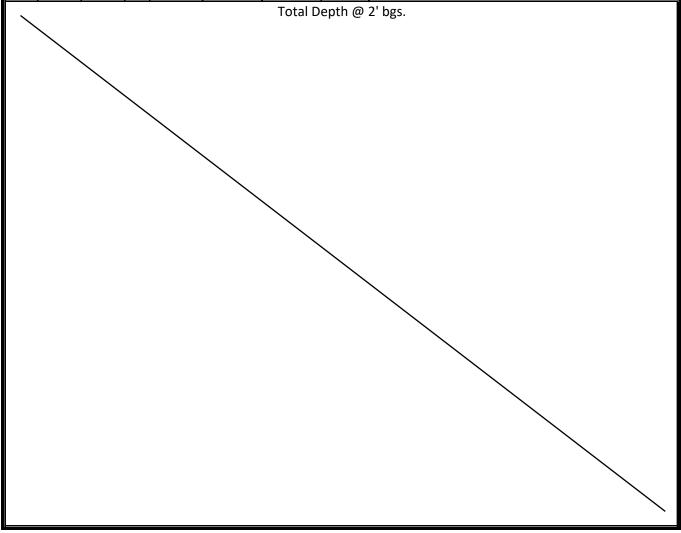


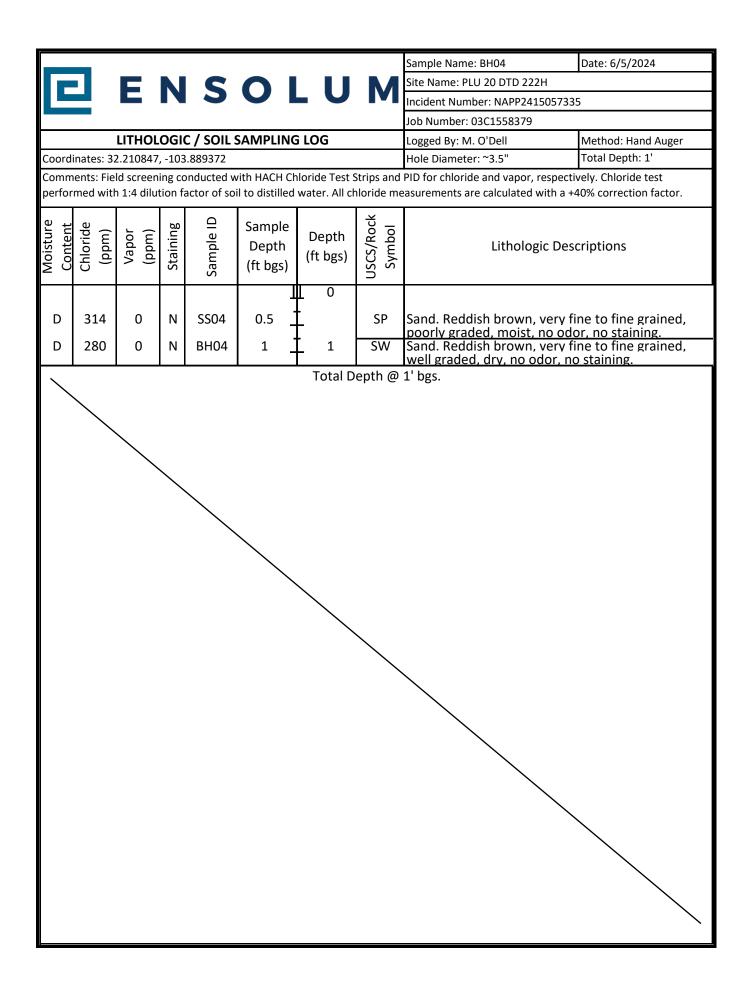




Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements are calculated with a +40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0		
М	918	0	N	SS03	0.5	<u> </u>	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, moist, no odor, no staining.
D	638	0	N		1 _	1	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry, no odor, no staining.
D	465	0	N	BH03	2 _	2		







APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



May 24, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H

Enclosed are the results of analyses for samples received by the laboratory on 05/20/24 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Reported: 05/24/2024

Project Name: PLU 20 DTD 222H Project Number: 03C1558379

Project Location: XTO 32.2109425, -103.8891928

Sampling Date: 05/20/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 05 0.5' (H242769-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Alyssa Parras

Analyzed By: MS

Project Location: XTO 32.2109425, -103.8891928

mg/kg

Sample ID: SS 06 0.5' (H242769-02)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Alyssa Parras

Analyzed By: MS

Project Location: XTO 32.2109425, -103.8891928

mg/kg

Sample ID: SS 07 0.5' (H242769-03)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024

Reported: 05/24/2024
Project Name: PLU 20 DTD 222H
Project Number: 03C1558379

Project Location: XTO 32.2109425, -103.8891928

Sampling Date: 05/20/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 08 0.5' (H242769-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558379 Alyssa Parras

Project Location: XTO 32.2109425, -103.8891928

Sample ID: SS 09 0.5' (H242769-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Reported: 05/24/2024

05/24/2024 PLU 20 DTD 222H

Project Name: PLU 20 DTD 2
Project Number: 03C1558379

Project Location: XTO 32.2109425, -103.8891928

Sampling Date: 05/20/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS 10 0.5' (H242769-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Alyssa Parras

Applyzod By: MC

Project Location: XTO 32.2109425, -103.8891928

ma/ka

Sample ID: SS 11 0.5' (H242769-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/21/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Alyssa Parras

Applyzod By: MC

Project Location: XTO 32.2109425, -103.8891928

ma/ka

Sample ID: SS 12 0.5' (H242769-08)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 03C1558379

Project Location: XTO 32.2109425, -103.8891928

Sample ID: SS 13 0.5' (H242769-09)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/21/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558379 Alyssa Parras

Project Location: XTO 32.2109425, -103.8891928

Sample ID: SS 14 0.5' (H242769-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Reported:

Sampling Date: 05/24/2024 Sampling Type:

Project Name: PLU 20 DTD 222H Project Number: 03C1558379

Project Location: XTO 32.2109425, -103.8891928 05/20/2024 Soil

Sampling Condition:

Sample Received By:

Cool & Intact Alyssa Parras

Sample ID: SS01 0.5' (H242769-11)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Reported: 05/24/2024

05/24/2024 PLU 20 DTD 222H

ma/ka

Project Number: 03C1558379

Project Location: XTO 32.2109425, -103.8891928

Sampling Date: 05/20/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS02 0.5' (H242769-12)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Alyssa Parras

Analyzed By: MS

Project Location: XTO 32.2109425, -103.8891928

mg/kg

Sample ID: SS03 0.5' (H242769-13)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/20/2024 Sampling Date: 05/20/2024

Reported: 05/24/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558379 Alyssa Parras

Project Location: XTO 32.2109425, -103.8891928

Sample ID: SS04 0.5' (H242769-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTEX	<0.300	0.300	05/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/21/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

company wante. Ensolum, LLC		BILL TO		
Tacoma	Morrissey	P.O.#:		ANALYSIS REQUEST
Address: 5122 National	Parks Hwy	Company: VT	ne val	
city: Carlsbad	State: NM Zip: 88270	P	LA CHARLES	
155	Fax #:	55:3184 F	Tream Ca	
5	Project Owner:	city: Carlshar	Cick Boy	
Project Name: PLW 20 DT	D 222H	State: NM Zip: 88220	5720	
Project Location: 32,2109425	5,-103.8891928	Phone #:		
Sampler Name: Mariaha O	Dell	Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING	
	3		le	
Lab I.D. Sample I.D.	OR (C)ON AINERS	SE:	ionic PH EX	
242/08/8/8/24	G)RAB	THER CID/BA CE / CC THER	Ch	
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es. All claims including those for negligence and any other car. In no event shall Cardhal be liable for incidental or conseques or successors are consequents.	nelpees. All claims and our our contents is issued and clients excitable remark for any claim satisfy excitable based in contract or lost shall be limited to the amount pand by the client to the strice. In no event shall be cliented by Carrier shall be a content of the desired by Carrier shall be cliented	act or tort, shall be limited to the amount paid and received by Cardinal within 10 days after is, loss of use, or loss of profile incurred by cl	by the client for the completion of the applicable	
delinquished By:	Date: Received By:	im is based upon any of the above staked rea	lt: 🛘 Yes	1 Phone #
July / Kell	10 17 200ce		y Gens	Num. Com, modelle ensolum. com
	Time: Received By:		COST CENTER: 2266531001	26
Delivered By: (Circle One) Onese ampler - UPS - Bus - Other:	5 6	CHECKED BY:	Turnaround Time: Standard M	Bacteria (only) Sample Condition Cool Intact Observed Town *C
FURM-000 K 3:Z 10/0//21		W	1 OF	No No Corrected Temp °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

ard ⊠ Bacteria (only) Sample Condition ☐ Cool Infact Observed Temp. °C ☐ Yes ☐ Yes	Standard N	Time:	Turnaround Time:	CHECKED BY: (Initials)	Sample Condition Cool Intact U-Yes - Yes	Cool Cool	100	Corrected Tomp. C	s - Other:	Sampler - UPS - Bus - Other:
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ensolum. com , modelleensolum. com	mailed. Please pro	sscy	All Results are emailed. trmo rrisscy		5	apa	5 20 24	52	May	Relinguished By:
		pplical	ter completion of the chief, its subsidiaries reasons or otherwise.	wed unless made in willing and received by Cardinal within 30 days a abilion, business interruptions, loss of use, or loss of profits incurred by surdiess of whether such dalain is based upon any of the above stated your Ru-	in writing and received iterruptions, loss of use such claim is based o	emed waived unless made almost fimitation, business in dinal, requiress of whether the control of the control o	roever shall be deemed wanted water the control of	ny other cause what or consequental date of services	nal be fiable for incidental a part of or related to the perfe	service. In no event shall Condina be leashe for incidental or consequential damages, including without private unless made in writing and teceived by Cardinal within 36 days after completion of the applicable efficiency are accessors arising out of or reliated to the performance of services hereumder by Cardinal implaces, and increase of use, or loss of profits heared by client, its subsidiaries, Relinquished By: Relinquished By: Date: Received Re-
				be limited to the amount of	d in contract or fort sh	arising whether base	ve remedy for any claim	y and client's exclus	Damages, Cardinal's liability	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclasive remody for any claim artising whether based in contract of lot, shall be limited to the amount and but the class to so.
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	BTEX	hloric		ID/BASE: :/COOL HER:	UDGE HER :	CONTAINER ROUNDWAT ASTEWATER	(feet)		Sample I.D.	Lab I.D.
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	-		SAMPLING	SERV	MATRIX PRI			-	P	FOR LAB USE ONLY
				Phone #:		azhthaa	10. COT -	130 BURL	TI	Sampler Name: MA
	5-		38220	State: NM Zip: 88220			222H	010	3	Project Name:
				x: Carlsba	City:		Project Owner:	79 Pr	5583	Project #: USC1
		7	Greens	2			Fax #:		5	Phone #: 55
			Ruth	P		ip: 88220	-		bad	City: COVIS
			Energy	N. Y.	C		arks Hwu		2 National	Address: 3122
ANALYSIS REQUEST	-	1		P.O. #:	9		MOPRISSEU		er: Tacoma	Project Manager:
	1	1	9	BILL TO				C	Company Name: Ensolum, LLC	Company Nam



June 11, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H

Enclosed are the results of analyses for samples received by the laboratory on 06/05/24 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/05/2024 Sampling Date: 06/05/2024 Reported: 06/11/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.2109425, -103.8891928

Sample ID: BH 01 1' (H243203-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.88	94.0	2.00	8.16	
Toluene*	<0.050	0.050	06/07/2024	ND	1.98	99.0	2.00	9.03	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.00	100	2.00	9.96	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.23	104	6.00	8.62	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/05/2024 Sampling Date: 06/05/2024

Reported: 06/11/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.2109425, -103.8891928

ma/ka

Sample ID: BH 02 1' (H243203-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.70	85.0	2.00	4.80	
Toluene*	<0.050	0.050	06/07/2024	ND	1.91	95.4	2.00	4.35	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.08	104	2.00	9.39	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.32	105	6.00	10.1	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/05/2024 Sampling Date: 06/05/2024

Reported: 06/11/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558379 Shalyn Rodriguez

Project Location: XTO 32.2109425, -103.8891928

Sample ID: BH 03 2' (H243203-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.70	85.0	2.00	4.80	
Toluene*	<0.050	0.050	06/07/2024	ND	1.91	95.4	2.00	4.35	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.08	104	2.00	9.39	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.32	105	6.00	10.1	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/05/2024 Sampling Date: 06/05/2024

Reported: 06/11/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.2109425, -103.8891928

mg/kg

Sample ID: BH 04 1' (H243203-04)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.70	85.0	2.00	4.80	
Toluene*	<0.050	0.050	06/07/2024	ND	1.91	95.4	2.00	4.35	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.08	104	2.00	9.39	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.32	105	6.00	10.1	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

1	ELISOICHI) LLC	BILL TO	ANALYSIS REQUEST
rioject manager: acoma	Morrissey	P.O. #:	
. 12		Company: XTO FREYOU	
8	State: TX Zip: 79701 88220	Attn: Amy R	
Phone #: 537 - 257 - 8307	○	and the	
Project#: 0301558379	Project Owner:		
Project Name: PLU 20 D	DTD 222H	ZZ	
Project Location: 32.21094	25	Phone #:	
Sampler Name: Mariaha	611		
FOR LAB USE ONLY	MATRIX	SERV. SAMPLING	<i>l</i> S
	C)OMP		rid
Sample I.D.	(feet))RAB OR CONTAINE ROUNDWA	HER : ID/BASE: : / COOL HER :	TPH STEX
RHOI	→ # G W < S(O DATE	7
8 BH02	1)	+	- X
№ BH03	2'	C0.07	
4 BHOH	1. **	-	* * * * * * * * * * * * * * * * * * *
EASE NOTE: Liability and Damages, Cardinal's liability and	PLEASE NOTE: Liability and Damages. Cardinal's liability and olients exclusive remody for any claim addition to the		
syses. All claims including those for negligence and any oth vice. In no event shall Cardnal be liable for incidental or cor liabs or successors arising out of or related to the performan	nampses. All claims including those for negligence and any other cause whatsoever shall be deemed watered unless made in writing and received by Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, fiffiliates or successors arising out of or related to the performance of services hereunder by Cardinal, repartitiess of whether such claim is based upon any of the above stated.	or ion't, stall be limited to the amount paid by the client for the received by Cardinal within 30 days after completion of the apose of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above.	plicable
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kelinquisned By:	Date: Received By:	REMARKS: COST	MARKS: COST Center: 2266531001
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FURM-000 R 3.2 10/07/21	Corrected Temp. °C	Right	#30#140 0 0



July 10, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 20 DTD 222H-223H

Enclosed are the results of analyses for samples received by the laboratory on 07/02/24 16:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 01 0.3' (H243991-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2024	ND	1.90	95.2	2.00	8.06	
Toluene*	<0.050	0.050	07/08/2024	ND	1.85	92.5	2.00	8.86	
Ethylbenzene*	<0.050	0.050	07/08/2024	ND	1.88	94.1	2.00	9.10	
Total Xylenes*	<0.150	0.150	07/08/2024	ND	5.66	94.3	6.00	8.81	
Total BTEX	<0.300	0.300	07/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 02 0.3' (H243991-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2024	ND	1.90	95.2	2.00	8.06	
Toluene*	<0.050	0.050	07/08/2024	ND	1.85	92.5	2.00	8.86	
Ethylbenzene*	< 0.050	0.050	07/08/2024	ND	1.88	94.1	2.00	9.10	
Total Xylenes*	<0.150	0.150	07/08/2024	ND	5.66	94.3	6.00	8.81	
Total BTEX	<0.300	0.300	07/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 03 0.3' (H243991-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2024	ND	1.90	95.2	2.00	8.06	
Toluene*	<0.050	0.050	07/08/2024	ND	1.85	92.5	2.00	8.86	
Ethylbenzene*	<0.050	0.050	07/08/2024	ND	1.88	94.1	2.00	9.10	
Total Xylenes*	<0.150	0.150	07/08/2024	ND	5.66	94.3	6.00	8.81	
Total BTEX	<0.300	0.300	07/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.210943-103.889193

Sample ID: CS 04 0.3' (H243991-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 05 0.3' (H243991-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.210943-103.889193

Sample ID: CS 06 0.3' (H243991-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	82.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 07 0.3' (H243991-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	< 0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.210943-103.889193

Sample ID: CS 08 0.3' (H243991-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 09 0.3' (H243991-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.210943-103.889193

Sample ID: CS 10 0.3' (H243991-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.210943-103.889193

Sample ID: CS 11 0.3' (H243991-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	45.9	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	44.6	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 12 0.3' (H243991-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	< 0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 13 0.3' (H243991-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/08/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	87.5 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.49	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 14 0.3' (H243991-14)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 15 0.3' (H243991-15)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 16 0.3' (H243991-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 17 0.3' (H243991-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 18 0.3' (H243991-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 19 0.3' (H243991-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	178	89.2	200	5.16	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	175	87.7	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 20 0.3' (H243991-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 21 0.3' (H243991-21)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 22 0.3' (H243991-22)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.210943-103.889193

Sample ID: CS 23 0.3' (H243991-23)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.10	105	2.00	8.15	
Toluene*	<0.050	0.050	07/09/2024	ND	2.21	110	2.00	7.37	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.27	113	2.00	7.38	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	7.00	117	6.00	7.48	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 24 0.3' (H243991-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 25 0.3' (H243991-25)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 26 0.3' (H243991-26)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/02/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: *** (See Notes)
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: CS 27 0.3' (H243991-27)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 28 0.3' (H243991-28)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 29 0.3' (H243991-29)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

07/02/2024 Received: 07/02/2024 Sampling Date:

Soil Reported: 07/10/2024 Sampling Type:

*** (See Notes) Project Name: PLU 20 DTD 222H-223H Sampling Condition: Shalyn Rodriguez Sample Received By: Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193

Sample ID: CS 30 0.3' (H243991-30)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	3.83	
Toluene*	<0.050	0.050	07/09/2024	ND	1.95	97.3	2.00	4.82	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.00	100	2.00	5.88	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	5.91	98.5	6.00	6.04	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/08/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2024	ND	193	96.6	200	3.07	
DRO >C10-C28*	<10.0	10.0	07/08/2024	ND	199	99.4	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	07/08/2024	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum 110	Encolum IIC					
Project Manager: Ben Relill	· Bon Bolill			BILL TO	9	ANALYSIS REQUEST
Address: 3122 Na	Address: 3122 National Parks Hwy			7.0.#		
City: Carlsbad		State: NM	Zin: 88220	Attack And Sale Sale Sale Sale Sale Sale Sale Sale	gy inc.	
Phone #: 989 854 0852	4 0852	Fax #:		Address: 3104 F Green St	2	
Project #: 03C1558379	58379	Project Owner: XTO	r: XTO	City: Carlsbad		
Project Name: PL	Project Name: PLU 20 DTD 222H-223H			State: NM Zip:88220	30	
Project Location:	Project Location: 32.210943 -103.889193	39193		1		
Sampler Name:	Joshva Box	Pexley		7110116#		
FOR LAB USE ONLY		Nex				
			MP. MATRIX	PRESERV. SA	SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	Chlorides TPH BIEX	DIEX
)-	1060	450.3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	× 10	SHO	
Q V	6502		6			
	6000				1065	
N-	Chowl				Hee	
to	2007				10%	
7	1643				110	
02)	0504				1115	
9	0409				8	
EASE NOTE: Liability and Da	0510	0.50.3	C 1 X	X 7/2/W	X-X-	
lyses. All claims including the vice. In no event shall Cardin lates or successors arising out	analyses. All claims including those for negligence and any offer cause whatsoever shall be deemed service. In no event shall Cardinal be liable for incidental or consequental damages, including whout dilitates or successors arising out of or related to the performance of services hereunder by Cardinal.	ce of services hereunder by Ca	analyses. All claims including those for negligence and any others sociotate remedy to any talim arising whether based in contract or text, shall be limited to the amount paid by the client for the service. In no event shall Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whost il limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	arking whether based in contract or fort, shall be limited to the amount paid by the client for the walved unletes made in witting and received by Cardinal within 30 days after completion of the a limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, regardless of whether such dain is based unon any of the above servers.	id by the client for the ar completion of the applicable client, its subsidiaries.	
Confidence by:		Date: Jah	Shodkigue	then	Verbal Result: Verbal Result: All Results are emailed. Please BBelill@ensolum.co	tesult: ☐ Yes ☐ No
Kelinquished By:		Date:	Received By:	c	REMARKS: Incident: NAPP2415057335	
Delivered By: (Circle One)		Observed Temp. °C	Ta o	n CHECKED BY:	Turnaround Time: Stand	ard Bacteria (only) S
FURM-000 R 3.2		orracced temp.	No No No	2	84	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC	C	BILL TO	ANALYSIS	
Project Manager: Ben Belill		P.O. #:	ANALTSIS REQUEST	
Address: 3122 National Parks Hwy	Hwy	Company: XTO Energy Inc.		
City: Carlsbad	State: NM Zip: 88220	Attn: Amy Ruth		
Phone #: 989 854 0852	Fax #:	Address: 3104 E Green St	on St	
Project #: 03C1558379	Project Owner: XTO			
Project Name: PLU 20 DTD 222H-223H		State: NM Zip:88220	5	
Project Location: 32.210943 -103.889193	03.889193			
Sampler Name: Joshwa Bo	Boxley	Fax #:		
FOR LAB USE ONLY	MATRIX	ESERV.	SAMPLING	
Lab I.D. Sample I.D.	D. Depth AB OR (C)OMP NTAINERS UNDWATER TEWATER	R: /BASE: COOL	ilon des PH TEX	
1200	GF W/ SC	AC AC OT	107	
2157		7157	12.30	
			1727	
CSIM			1724	
			1210	
0			1215	
			1210	
6518			techno	
			1202	
PLEASE NOTE: Liability and Damages, Cardinal's liabil	the and client's continued for any data sold and	N Thru	(1200 XXX	
analyses. All claims including those for regigence and service. In no event shall Cardinal be liable for incidenta affiliates or successors arising out of or related to the per	analyses. All claims including those for negligence and any other sexusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client for the service. In no event shall Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal within 30 days after completion of the applicable in the service. In no event shall Cardinal within 30 days after completion of the applicable in the service in the se	hether based in contract or tort, shall be limited to the amount paci- less made in witing and received by Cardinal within 30 days after business interruptions, loss of use, or loss of profits incurred by s of whether such claim is based upon any of the above stated use.	by the client for the completion of the applicable limits subsidiaries, some completion of the applicable limits subsidiaries, some completions of the subsidiaries.	
My My	123 Received By:		Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: BBelill@ensolum.com, TMorrissey@ensolum.com	
Relinquished By:	Receive	1	REMARKS: Incident: NAPP2415057335	
Delivered By: (Circle One)	Observed Temp. % C1 Sample Condition	CHECKED BY:	66531001	
Sampler - UPS - Bus - Other:	Coorrected Temp. "C Cool Infact Yes Tes	(Initials)	Thermometer ID #115 # 140 Standard Sacteria (only) Sample Condition Rush Cool Infact Observed Temp. °C Per ☐ Yes ☐ Yes ☐ Yes	ndition Temp. °C

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp

Cool Intact

Xes Yes

No No No

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

| Yes | Yes | Yes | No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

Cost Center: 2266531001

Thermometer ID #15 #16

101 East Marland, Hobbs, NM 88240 oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326	FAX (575) 393-2476	476				
Company Name	LLC			BILL TO		ANALYSIS REQUEST	
Project Manager: Ben Belill	r: Ben Belill			P.O. #:		- 1	1
Address: 3122	Address: 3122 National Parks Hwy			Company: XTO Energy Inc.	av Inc.		
City: Carlsbad		State: NM	Zip: 88220	Attn: Amy Ruth			_
Phone #: 989 854 0852	54 0852	Fax #:		m	Green St		_
Project #: 03C1558379	558379	Project Owner: XTO	r: XTO	City: Carlsbad			_
Project Name: F	Project Name: PLU 20 DTD 222H-223H	-		State: NM Zip:88220	3		
Project Location	Project Location: 32.210943 -103.889193	1193					
Sampler Name:	Joshwa Box a			Fax#:			
FOR LAB USE ONLY			MATRIX	ESERV	SAMPLING		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	Chlonde TPH BTEX		
مع	1230	20 94	- P #	A N N	1945		
22	6523						
2	CSZW				0201		
8	6525				101		
200	37.50				241		
80	9150				HMH		
8	0529				THE OWNER OF THE OWNER OWN		
30	65.30	DA 0.3	C 1 X	W This	()5. 13. X		
analyses. All claims including service. In no event shall Card affiliates or successors arising Relinquished By:	o Damages. Cardinal's liability and di g those for negligence and any other ridinal be liable for incidental or conse g out of or related to the performance	ent's exclusive remedy for an cause whatsoever shall be d quental damages, including of services hereunder by Ca	3 2 2 E	sed in contract or fort, shall be limited to the amount paid de in writing and received by Cardinal within 30 days after i interruptions, loss of use, or loss of profits incurred by o her such claim is based upon any of the above stated re	pplicabl		L
Many	M	Time Lay	Spode	Ecoleigney	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please pro BBelill@ensolum.com, TI	tesult: ☐ Yes ☐ No ☐ Add'I Phone #: ts are emailed. Please provide Email address: BBellil@ensolum.com, TMorrissey@ensolum.com	
Kelinquished By:		Date:	Received By:	9	REMARKS: Incident: NAPP2415057335		
							-



July 26, 2024

DAVID MCINNIS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 20 DTD 222H-223H

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 07/23/2024
 Sampling Date:
 07/19/2024

 Reported:
 07/26/2024
 Sampling Type:
 Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.210943-103.889193

Sample ID: FS01 1' (H244369-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/24/2024	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	196	97.8	200	9.42	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	195	97.4	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	110 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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07/19/2024

Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Sampling Date:

Reported: 07/26/2024 Sampling Type: Soil Project Name: PLU 20 DTD 222H-223H Sampling Condition:

Cool & Intact Sample Received By: Project Number: 03C1558379 Shalyn Rodriguez

Project Location: XTO 32.210943-103.889193

Sample ID: FS02 1' (H244369-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/24/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Reported: 07/26/2024

03C1558379

Project Name: PLU 20 DTD 222H-223H

Project Location: XTO 32.210943-103.889193 Sampling Date: 07/19/2024

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By: Shalyn Rodriguez

Sample ID: FS03 1' (H244369-03)

Project Number:

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/24/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.210943-103.889193

mg/kg

Sample ID: FS04 1' (H244369-04)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/24/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Reported: 07/26/2024

Project Name: PLU 20 DTD 222H-223H

Project Number: 03C1558379

Project Location: XTO 32.210943-103.889193 Sampling Date: 07/19/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS05 1' (H244369-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/24/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.210943-103.889193

mg/kg

Sample ID: SW01 0-1' (H244369-06)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/24/2024	ND	448	112	400	3.51	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.210943-103.889193

mg/kg

Sample ID: SW02 0-1' (H244369-07)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/24/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: PLU 20 DTD 222H-223H Sampling Condition: Cool & Intact
Project Number: 03C1558379 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.210943-103.889193

mg/kg

Sample ID: SW03 0-1' (H244369-08)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/24/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Notes and Definitions

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely

affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum, LLC			BILL TO		Δ.	ANAI VOIC DECLIECT	
Project Manager: David Mcinnis	: David Mcinnis			P.O. #:		- 2	ANTIOIO NEWOEST	
Address: 3122	Address: 3122 National Parks Hwy	wy		pany: XTO	Energy Inc.	_		_
city: Carlsbad	۵	State: NM	Zip: 88220	Attn: Amy Ruth	g) mo.	_		\
Phone #: 337	337 257-8307	Fax #:			Green St.			\ _
Project #: : 03	: 03C1558379	Project Owner: XTO	r: XTO	- 1				1
Project Name:	PLU 20 DTD 222H - 223H	22H - 223H		State: NM Zip: 88220	20			
Project Location:								
Sampler Name: Jesse Dorman	lesse Dorman			Fax #:				
FOR LAB USE ONLY			P. MATRIX	ESERV.	SAMPLING			
Lab I.D.	Sample I.D.	Sample Depth (feet)	G)RAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL IL UDGE	THER: CID/BASE: E/COOL THER:	BTEX PH	CHLORIDE		
-	1054	1,	~ # V X s	A	UNTO	1		1
NQ	Fred				_	\		
c	404				2	100		
S	202	4			1 22.5	1		
16	5 1000)	041	~		10:00	1		
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 404801

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	404801
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415057335
Incident Name	NAPP2415057335 PLU 20 DTD 222H-223H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 20 DTD 222H-223H
Date Release Discovered	05/20/2024
Surface Owner	State

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 34 BBL Recovered: 10 BBL Lost: 24 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 404801

	- -,
QUESTI	ONS (continued)
Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road	5380 Action Number:
Midland, TX 79707	404801
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s.	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/19/2024

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 3

Action 404801

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	404801
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in millig	rams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10700	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0	
GRO+DRO (EPA SW-846 Method 8015M)	0	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	05/20/2024	
On what date will (or did) the final sampling or liner inspection occur	11/10/2024	
On what date will (or was) the remediation complete(d)	11/10/2024	
What is the estimated surface area (in square feet) that will be reclaimed	1500	
What is the estimated volume (in cubic yards) that will be reclaimed	55	
What is the estimated surface area (in square feet) that will be remediated	1500	
What is the estimated volume (in cubic yards) that will be remediated	55	
These estimated dates and measurements are recognized to be the best guess or calculation at the til	me of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 404801

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	404801
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 11/19/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 404801

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	404801
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 404801

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	404801
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	398716	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2024	
What was the (estimated) number of samples that were to be gathered	20	
What was the sampling surface area in square feet	1100	

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	2586	
What was the total volume (cubic yards) remediated	95	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	2586	
What was the total volume (in cubic yards) reclaimed	95	
Summarize any additional remediation activities not included by answers (above)	Additional excavation activities were conducted at the Site in conformance with the RWP to address an May 2024 release of produced water. Laboratory analytical results for all excavation soil samples collected indicate COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing Site conditions. The disturbed areas will be reclaimed according to the RWP approved reclamation plan in the next SLO favorable seeding season.	

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/19/2024
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QUESTIONS, Page 7

Action 404801

QUESTIONS (continued)

Operator:	OGRID:
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Midland, TX 79707	404801
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 404801

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
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CONDITIONS

Created By	Condition	Condition Date
scwells	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC.	11/20/2024
scwells	Remediation closure approved.	11/20/2024